



PTO/SB/08A (08-03)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		<b>Complete if Known</b>	
		Application Number	10/796,195
		Filing Date	03/10/2004
		First Named Inventor	Kato, et al.
		Art Unit	TBD
Sheet 1 of 1	Examiner Name	TBD	
		Attorney Docket Number	520.30414C56

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
KSO		US- 5,538,128	7/16/1996	Shimoyashiro, et al.	
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>2</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
KSO		JP 64-036042	2/7/1989	Kokusai Electric Co., Ltd.		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
KSO		S. Nakagawa, "Dry Etching", Drafts in Symposium of VLSI and FA Technology, April 1985, pages 1-14	
KSO		N. Nagai, "Parallel-Implantation Ion Implantation Device "NH-20SP", Special Issue/Semiconductor Manufacturing Device of Half-Micron Age, pages 1-12, 3/1990	

Examiner Signature	KSO Malley	Date Considered	9/23/04
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Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

520,304,14C56

APPLICATION NO.

TBD

APPLICANT  
KATO, et al.

FILING DATE  
March 10, 2004

EXPECTED GROUP  
3749

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
KSO	3 6 5 2 4 4 4	2-72	Lester, et al.			
	3 9 8 1 7 9 1	9-76	Rosvold			
	4 2 2 6 8 9 7	10-80	Coleman			
	4 3 1 1 4 2 7	1-82	Coad, et al.			
	4 3 1 3 8 1 5	2-82	Graves, Jr. et al.			
	4 4 4 9 8 8 5	5-84	Hertel, et al.			
	4 4 5 7 6 6 1	7-84	Flint, et al.			
	4 5 3 4 3 1 4	8-85	Ackley			
	4 5 6 3 2 4 0	1-86	Shibata, et al.			
	4 6 3 4 3 3 1	1-87	Hertel			
	4 7 0 5 9 5 1	11-87	Layman, et al.			

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCL ASS	TRANSLATION
					YES NO
KSO 6 2 8 9 8 8 1	4-87	Japan			X
6 2 2 0 7 8 6 6	9-87	Japan			X
1 3 1 9 7 0	2-89	Japan			X
1 3 1 9 7 1	2-89	Japan			X
6 3 6 5 8 2	1-89	Japan			X
1 1 3 5 0 1 5	5-89	Japan			X

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

KSO	R.P.H. Chang, "Multipurpose plasma reactor for materials research and processing", J. Vac. Sci. Technol., Vol. 14, No. 1, Jan./Feb. 1977, pages 278-280.
	Semiconductor Equipment Association of Japan, "Terminological Dictionary of Semiconductor Equipment", front, table, page 183, back, Nov. 20, 1987.
	Semiconductor Equipment Association of Japan, "Semiconductor News", Vol. 4, pp. 38-43, April 10, 1987 (w/ translation).

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KSO Malley

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ATTY. DOCKET NO.

503.30414C56

APPLICATION NO.

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APPLICANT  
KATO, et al.

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March 10, 2004

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLAS S	SUBCL ASS	FILING DATE IF APPROPRIATE
KSO	4 7 1 5 7 6 4	12-87	Hutchinson			
	4 8 5 1 1 0 1	7-89	Hutchinson			
	4 8 3 6 7 3 3	6-89	Hertel, et al.			
	4 8 3 6 9 0 5	6-89	Davis, et al.			
	4 8 9 5 1 0 7	1-90	Yano, et al.			
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	4 9 1 1 5 9 7	3-90	Maydan, et al.			
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KSO 2 6 5 2 5 2	3-90	Japan			X	
6 4 1 2 0 3 7	1-89	Japan			X	
2 6 1 0 6 4	3-90	Japan				X
1 3 1 0 5 5 3	12-89	Japan				X
1 2 5 1 7 3 4	10-89	Japan				X
6 2 4 4 5 7 1	2-87	Japan				X

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APPLICANT  
KATO, et al.

Filed: 03/10/04

**EXPECTED GROUP**  
**8749**

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DOCUMENT NUMBER												DATE	COUNTRY	CLASS	SUBCLAS S	TRANSLATION			
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1 2 9 8 1 8 0												12-89	Japan						
2 0 2 4 6 4 5 8												4-87	Europe						
2 6 5 2 5 2												3-90	Japan						

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	5 0 1 4 2 1 7	5-91	Savage	364	550	
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	4 1 3 8 3 0 6	2-79	Niwa	156	345	
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	5 0 1 4 2 1 7	5-91	Savage	364	498	
	5 3 5 1 4 1 5	10-94	Brooks, et al.	34	389	
	4 6 4 3 6 2 8	2-87	Takahashi, et al.	414	331	
	4 8 2 4 3 0 8	4-89	Kakehi, et al.	414	217	
	4 9 5 1 6 0 1	6-90	Hayden, et al.	414	217X	

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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2 0 3 8 1 3 3 8	5-90	Europe			
6 4 1 2 0 3 7	1-89	Japan			
4 3 0 5 4 9	4-92	Japan			
8 7 0 7 3 0 9	5-87	PCT Int'l Appl.			
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	5 5 0 4 0 3 3	4-86	Bajor, et al.			
	5 5 0 4 3 4 7	4-86	Jovanovic, et al.			
	5 5 5 6 7 1 4	9-86	Fukuyama, et al.			
	5 6 5 1 8 5 8	7-87	Lin			
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	4 3 1 3 7 8 3	2-82	Davies, et al.			
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	4 9 6 8 7 9 0	11-90	Petz, et al.			

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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLAS S	TRANSLATION	
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KSO		6	2	5	0	4	6	3	3-87	Japan				X
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		5	7	2	9	5	7	7	2-82	Japan				X
		6	3	1	5	3	2	7	0	6-88	Japan		X	

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

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KSO:malley

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Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 520.30415C56	SERIAL NO. TBD
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use several sheets if necessary)		APPLICANT KATO, et al.	
		Filed: 03/10/04	GROUP 3749

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
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Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation /Abstract	
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205	AU	JP patent No. 3145375, Notice of Reasons for Revocation 12-18-01 (TR)
1	AV	JP patent No. 3147230, Notice of Reasons for Revocation 12-18-01 (TR)
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Examiner B. D. Mollen		Date Considered 9/23/04

\* PTR (partial translation) - FTR (full translation) - ABS (abstract)

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**OTHER DOCUMENTS \* (Including Author, Title, Date, Pertinent Pages, Etc.)**

<input checked="" type="checkbox"/>	AU	KR application No. 46756/98, Preliminary Notice of Ground(s) for Rejection 1-20-99 (TR)
<input type="checkbox"/>	AV	KR application No. 212874, 12-22-00, Notice of Decision on Opposition to the Granted Patent
<input type="checkbox"/>	AW	KR application No. 46757/98, Preliminary Notice of Ground(s) for Rejection 1-20-99 (TR)
<input type="checkbox"/>	AX	KR application No. 212819, 12-22-00, Notice of Decision on Opposition to the Granted Patent (TR)
<input type="checkbox"/>	AY	JP patent No. 3145359, Notice of Reasons for Revocation 12-18-01 (TR)
<input type="checkbox"/>	AZ	JP patent No. 3145375, Notice of Reasons for Revocation 12-18-01 (TR)
Examiner: <i>K. O'Malley</i>		Date Considered: <i>9/23/04</i>

\* PTR (partial translation) - FTR (full translation) - ABS (abstract)

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 520.30414C56	SERIAL NO. TBD
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	AV	EP98106162, Office action 11-2000
	AW	EP98106162, Office action 6-2001
	AX	KK application No. 14984/91, Preliminary Notice of Ground(s) for Rejection (TR)
	AY	KK application No. 184682-00-00 Notice of Decision on Opposition to the Granted Patent 10-4-2000 (TR)
	AZ	KK application No. 184682, Trial Decision 8-1-00 (TR)
Examiner		Date Considered
J. J. Malley		9/23/04

\* PTR (partial translation) - FTR (full translation) - ABS (abstract)

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 520.30414C56	SERIAL NO. TBD
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**OTHER DOCUMENTS \* (Including Author, Title, Date, Pertinent Pages, Etc.)**

<input checked="" type="checkbox"/>	AU	EP91307625, Summons to attend oral proceedings 12-9-99
<input type="checkbox"/>	AV	EP91307625, Communication of a notice of opposition 11-19-98
<input type="checkbox"/>	AW	EP91307625, Interlocutory decision in Opposition proceeding, 5-16-00
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Examiner		Date Considered
K. J. Malley		9/23/04

\* PTR (partial translation) - ~~FTR~~ (full translation) - ABS (abstract)

Sheet 11 of 17

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 520.30414C56	SERIAL NO. TBD
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**OTHER DOCUMENTS \* (Including Author, Title, Date, Pertinent Pages, Etc.)**

<input checked="" type="checkbox"/>	AU	JP application No. 11-001263, Notification of Reasons for Refusal 2-2-00 (TR)
<input type="checkbox"/>	AV	JP application No. 2000-05449, Notification of Reasons for Refusal 9-6-00 (TR)
<input type="checkbox"/>	AW	JP application No. 2000-054450, Notification of Reasons for Refusal 9-6-00 (TR)
<input type="checkbox"/>	AX	JP application No. 2000-054451, Notification of Reasons for Refusal 9-6-00 (TR)
<input type="checkbox"/>	AY	JP application No. 2000-054452, Notification of Reasons for Refusal 9-6-00 (TR)
<input type="checkbox"/>	AZ	EP91307625, Office Action 10-11-93
Examiner <i>K. J. Malley</i>		Date Considered <i>9/23/04</i>

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						Yes	No
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AN	2-224242	9-6-90	Japan			PTR	
AO	58-108641	6-28-83	Japan			ABS	
AP	1-120811	5-12-89	Japan			ABS	
AQ	61-250185	11-7-86	Japan			ABS	
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**OTHER DOCUMENTS \* (Including Author, Title, Date, Pertinent Pages, Etc.)**

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AV	Official Decision on Opposition to Grant of Patent 1999-71584 1-12-01 (TR)
AW	JP application No. 9-329873, Notification of Reasons for Refusal 7-14-98 (TR)
AX	JP application No. 9-329873, Notification of Reasons for Refusal 11-10-98 (TR)
AY	JP patent No. 2942527, Notice of Reasons for Revocation 6-27-00 (TR)
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Examiner	Date Considered
K. O'Malley	9/23/04

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AN	62-132321	6-15-87	Japan			PTR/ABS	
AO	63-131123	8-26-88	Japan			PTR	
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AV	Decision for Patent Opposition, Opposition No. 10-70995 (10-99) (TR)
AW	JP application No. 2-225321, Notification of Reasons for Refusal 10-15-96 (TR)
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	AO	4-82841	7-20-92	Japan			X
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\* PTR (partial translation) - FTR (full translation) - ABS (abstract)

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